#2

OIPE

RAW SEQUENCE LISTING   DATE: 08/01/2001
PATENT APPLICATION: US/09/912,157   TIME: 15:18:07

Input Set : A:\00-49.SEQ.txt
Output Set: N:\CRF3\08012001\I912157.raw

ENTERED

```
      4 <110> APPLICANT: Presnell, Scott R.
      5        Kuestner, Rolf E.
      6        Gao, Zeren
      8 <120> TITLE OF INVENTION: Human Cytokine Receptor
     10 <130> FILE REFERENCE: 00-49
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/912,157
C--> 12 <141> CURRENT FILING DATE: 2001-07-23
     12 <160> NUMBER OF SEQ ID NOS: 13
     14 <170> SOFTWARE: FastSEQ for Windows Version 3.0
     16 <210> SEQ ID NO: 1
     17 <211> LENGTH: 2383
     18 <212> TYPE: DNA
     19 <213> ORGANISM: Homo sapiens
     21 <220> FEATURE:
     22 <221> NAME/KEY: CDS
     23 <222> LOCATION: (86)...(2344)
     25 <400> SEQUENCE: 1
     26  ccgccgcggc caccgcccac tcggggctgg ccagcggcgg gcggccgggg cgcagagaac     60
     27  ggcctggctg ggcgagcgca cggcc atg gcc ccg tgg ctg cag ctc tgc tcc    112
     28                          Met Ala Pro Trp Leu Gln Leu Cys Ser
     29                           1               5
     31  gtc ttc ttt acg gtc aac gcc tgc ctc aac ggc tcg cag ctg gct gtg    160
     32  Val Phe Phe Thr Val Asn Ala Cys Leu Asn Gly Ser Gln Leu Ala Val
     33   10              15                  20                  25
     35  gcc gct ggc ggg tcc ggc cgc gcg cgg ggc gcc gac acc tgt ggc tgg    208
     36  Ala Ala Gly Gly Ser Gly Arg Ala Arg Gly Ala Asp Thr Cys Gly Trp
     37                   30                  35                  40
     39  agg atg aaa gcg gct gcc cga ccc cgg ctt tgt gtt gct aat gag gga    256
     40  Arg Met Lys Ala Ala Ala Arg Pro Arg Leu Cys Val Ala Asn Glu Gly
     41               45                  50                  55
     43  gtg ggg cca gcc agc aga aac agt ggg ctg tac aac atc acc ttc aaa    304
     44  Val Gly Pro Ala Ser Arg Asn Ser Gly Leu Tyr Asn Ile Thr Phe Lys
     45           60                  65                  70
     47  tat gac aat tgt acc acc tac ttg aat cca gtg ggg aag cat gtg att    352
     48  Tyr Asp Asn Cys Thr Thr Tyr Leu Asn Pro Val Gly Lys His Val Ile
     49       75                  80                  85
     51  gct gac gcc cag aat atc acc atc agc cag tat gct tgc cat gac caa    400
     52  Ala Asp Ala Gln Asn Ile Thr Ile Ser Gln Tyr Ala Cys His Asp Gln
     53   90                  95                  100                 105
     55  gtg gca gtc acc att ctt tgg tcc cca ggg gcc ctc ggc atc gaa ttc    448
     56  Val Ala Val Thr Ile Leu Trp Ser Pro Gly Ala Leu Gly Ile Glu Phe
     57                   110                 115                 120
     59  ctg aaa gga ttt cgg gta ata ctg gag gag ctg aag tcg gag gga aga    496
     60  Leu Lys Gly Phe Arg Val Ile Leu Glu Glu Leu Lys Ser Glu Gly Arg
     61                   125                 130                 135
     63  cag tgc caa caa ctg att cta aag gat ccg aag cag ctc aac agt agc    544
     64  Gln Cys Gln Gln Leu Ile Leu Lys Asp Pro Lys Gln Leu Asn Ser Ser
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Input Set : A:\00-49.SEQ.txt
Output Set: N:\CRF3\08012001\I912157.raw

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65          140              145              150
67   ttc aaa aga act gga atg gaa tct caa cct ttc ctg aat atg aaa ttt    592
68   Phe Lys Arg Thr Gly Met Glu Ser Gln Pro Phe Leu Asn Met Lys Phe
69       155              160              165
71   gaa acg gat tat ttc gta aag gtt gtc cct ttt cct tcc att aaa aac    640
72   Glu Thr Asp Tyr Phe Val Lys Val Val Pro Phe Pro Ser Ile Lys Asn
73   170              175              180              185
75   gaa agc aat tac cac cct ttc ttc ttt aga acc cga gcc tgt gac ctg    688
76   Glu Ser Asn Tyr His Pro Phe Phe Phe Arg Thr Arg Ala Cys Asp Leu
77                   190              195              200
79   ttg tta cag ccg gac aat cta gct tgt aaa ccc ttc tgg aag cct cgg    736
80   Leu Leu Gln Pro Asp Asn Leu Ala Cys Lys Pro Phe Trp Lys Pro Arg
81                205              210              215
83   aac ctg aac atc agc cag cat ggc tcg gac atg cag gtg tcc ttc gac    784
84   Asn Leu Asn Ile Ser Gln His Gly Ser Asp Met Gln Val Ser Phe Asp
85           220              225              230
87   cat gca ccg cac aac ttc ggc ttc cgt ttc ttc tat ctt cac tac aag    832
88   His Ala Pro His Asn Phe Gly Phe Arg Phe Phe Tyr Leu His Tyr Lys
89       235              240              245
91   ctc aag cac gaa gga cct ttc aag cga aag acc tgt aag cag gag caa    880
92   Leu Lys His Glu Gly Pro Phe Lys Arg Lys Thr Cys Lys Gln Glu Gln
93   250              255              260              265
95   act aca gag acg acc agc tgc ctc ctt caa aat gtt tct cca ggg gat    928
96   Thr Thr Glu Thr Thr Ser Cys Leu Leu Gln Asn Val Ser Pro Gly Asp
97                   270              275              280
99   tat ata att gag ctg gtg gat gac act aac aca aca aga aaa gtg atg    976
100  Tyr Ile Ile Glu Leu Val Asp Asp Thr Asn Thr Thr Arg Lys Val Met
101              285              290              295
103  cat tat gcc tta aag cca gtg cac tcc ccg tgg gcc ggg ccc atc aga    1024
104  His Tyr Ala Leu Lys Pro Val His Ser Pro Trp Ala Gly Pro Ile Arg
105          300              305              310
107  gcc gtg gcc atc aca gtg cca ctg gta gtc ata tcg gca ttc gcg acg    1072
108  Ala Val Ala Ile Thr Val Pro Leu Val Val Ile Ser Ala Phe Ala Thr
109      315              320              325
111  ctc ttc act gtg atg tgc cgc aag aag caa caa gaa aat ata tat tca    1120
112  Leu Phe Thr Val Met Cys Arg Lys Lys Gln Gln Glu Asn Ile Tyr Ser
113  330              335              340              345
115  cat tta gat gaa gag agc tct gag tct tcc aca tac act gca gca ctc    1168
116  His Leu Asp Glu Glu Ser Ser Glu Ser Ser Thr Tyr Thr Ala Ala Leu
117              350              355              360
119  cca aga gag agg ctc cgg ccg cgg ccg aag gtc ttt ctc tgc tat tcc    1216
120  Pro Arg Glu Arg Leu Arg Pro Arg Pro Lys Val Phe Leu Cys Tyr Ser
121              365              370              375
123  agt aaa gat ggc cag aat cac atg aat gtc gtc cag tgt ttc gcc tac    1264
124  Ser Lys Asp Gly Gln Asn His Met Asn Val Val Gln Cys Phe Ala Tyr
125          380              385              390
127  ttc ctc cag gac ttc tgt ggc tgt gag gtg gct ctg gac ctg tgg gaa    1312
128  Phe Leu Gln Asp Phe Cys Gly Cys Glu Val Ala Leu Asp Leu Trp Glu
129      395              400              405
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131  gac ttc agc ctc tgt aga gaa ggg cag aga gaa tgg gtc atc cag aag    1360
132  Asp Phe Ser Leu Cys Arg Glu Gly Gln Arg Glu Trp Val Ile Gln Lys
133  410                     415                 420                 425
135  atc cac gag tcc cag ttc atc att gtg gtt tgt tcc aaa ggt atg aag    1408
136  Ile His Glu Ser Gln Phe Ile Ile Val Val Cys Ser Lys Gly Met Lys
137                          430                 435                 440
139  tac ttt gtg gac aag aag aac tac aaa cac aaa gga ggt ggc cga ggc    1456
140  Tyr Phe Val Asp Lys Lys Asn Tyr Lys His Lys Gly Gly Gly Arg Gly
141                      445                 450                 455
143  tcg ggg aaa gga gag ctc ttc ctg gtg gcg gtg tca gcc att gcc gaa    1504
144  Ser Gly Lys Gly Glu Leu Phe Leu Val Ala Val Ser Ala Ile Ala Glu
145              460                 465                 470
147  aag ctc cgc cag gcc aag cag agt tcg tcc gcg gcg ctc agc aag ttt    1552
148  Lys Leu Arg Gln Ala Lys Gln Ser Ser Ser Ala Ala Leu Ser Lys Phe
149          475                 480                 485
151  atc gcc gtc tac ttt gat tat tcc tgc gag gga gac gtc ccc ggt atc    1600
152  Ile Ala Val Tyr Phe Asp Tyr Ser Cys Glu Gly Asp Val Pro Gly Ile
153  490                 495                 500                 505
155  cta gac ctg agt acc aag tac aga ctc atg gac aat ctt cct cag ctc    1648
156  Leu Asp Leu Ser Thr Lys Tyr Arg Leu Met Asp Asn Leu Pro Gln Leu
157                      510                 515                 520
159  tgt tcc cac ttg cac tcc cga gac cac ggc ctc cag gag ccg ggg cag    1696
160  Cys Ser His Leu His Ser Arg Asp His Gly Leu Gln Glu Pro Gly Gln
161              525                 530                 535
163  cac acg cga cag ggc agc aga agg aac tac ttc cgg agc aag tca ggc    1744
164  His Thr Arg Gln Gly Ser Arg Arg Asn Tyr Phe Arg Ser Lys Ser Gly
165          540                 545                 550
167  cgg tcc cta tac gtc gcc att tgc aac atg cac cag ttt att gac gag    1792
168  Arg Ser Leu Tyr Val Ala Ile Cys Asn Met His Gln Phe Ile Asp Glu
169          555                 560                 565
171  gag ccc gac tgg ttc gaa aag cag ttc gtt ccc ttc cat cct cct cca    1840
174  Glu Pro Asp Trp Phe Glu Lys Gln Phe Val Pro Phe His Pro Pro Pro
175  570                 575                 580                 585
177  ctg cgc tac cgg gag cca gtc ttg gag aaa ttt gat tcg ggc ttg gtt    1888
178  Leu Arg Tyr Arg Glu Pro Val Leu Glu Lys Phe Asp Ser Gly Leu Val
179                      590                 595                 600
181  tta aat gat gtc atg tgc aaa cca ggg cct gag agt gac ttc tgc cta    1936
182  Leu Asn Asp Val Met Cys Lys Pro Gly Pro Glu Ser Asp Phe Cys Leu
183                      605                 610                 615
185  aag gta gag gcg gct gtt ctt ggg gca acc gga cca gcc gac tcc cag    1984
186  Lys Val Glu Ala Ala Val Leu Gly Ala Thr Gly Pro Ala Asp Ser Gln
187              620                 625                 630
189  cac gag agt cag cat ggg ggc ctg gac caa gac ggg gag gcc cgg cct    2032
190  His Glu Ser Gln His Gly Gly Leu Asp Gln Asp Gly Glu Ala Arg Pro
191          635                 640                 645
193  gcc ctt gac ggt agc gcc gcc ctg caa ccc ctg ctg cac acg gtg aaa    2080
194  Ala Leu Asp Gly Ser Ala Ala Leu Gln Pro Leu Leu His Thr Val Lys
195  650                 655                 660                 665
197  gcc ggc agc ccc tcg gac atg ccg cgg gac tca ggc atc tat gac tcg    2128
```

RAW SEQUENCE LISTING   DATE: 08/01/2001
PATENT APPLICATION: US/09/912,157   TIME: 15:18:07

Input Set : A:\00-49.SEQ.txt
Output Set: N:\CRF3\08012001\I912157.raw

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198  Ala Gly Ser Pro Ser Asp Met Pro Arg Asp Ser Gly Ile Tyr Asp Ser
199              670                 675                 680
201  tct gtg ccc tca tcc gag ctg tct ctg cca ctg atg gaa gga ctc tcg      2176
202  Ser Val Pro Ser Ser Glu Leu Ser Leu Pro Leu Met Glu Gly Leu Ser
203              685                 690                 695
205  acg gac cag aca gaa acg tct tcc ctg acg gag agc gtg tcc tcc tct      2224
206  Thr Asp Gln Thr Glu Thr Ser Ser Leu Thr Glu Ser Val Ser Ser Ser
207              700                 705                 710
209  tca ggc ctg ggt gag gag gaa cct cct gcc ctt cct tcc aag ctc ctc      2272
210  Ser Gly Leu Gly Glu Glu Glu Pro Pro Ala Leu Pro Ser Lys Leu Leu
211      715                 720                 725
213  tct tct ggg tca tgc aaa gca gat ctt ggt tgc cgc agc tac act gat      2320
214  Ser Ser Gly Ser Cys Lys Ala Asp Leu Gly Cys Arg Ser Tyr Thr Asp
215  730                 735                 740                 745
217  gaa ctc cac gcg gtc gcc cct ttg taacaaaacg aaagagtcta agcattgcca     2374
218  Glu Leu His Ala Val Ala Pro Leu
219              750
221  ctttagctg                                                            2383
223  <210> SEQ ID NO: 2
224  <211> LENGTH: 753
225  <212> TYPE: PRT
226  <213> ORGANISM: Homo sapiens
228  <400> SEQUENCE: 2
229  Met Ala Pro Trp Leu Gln Leu Cys Ser Val Phe Phe Thr Val Asn Ala
230  1               5                   10                  15
231  Cys Leu Asn Gly Ser Gln Leu Ala Val Ala Ala Gly Gly Ser Gly Arg
232              20                  25                  30
233  Ala Arg Gly Ala Asp Thr Cys Gly Trp Arg Met Lys Ala Ala Ala Arg
234          35                  40                  45
235  Pro Arg Leu Cys Val Ala Asn Glu Gly Val Gly Pro Ala Ser Arg Asn
236      50                  55                  60
237  Ser Gly Leu Tyr Asn Ile Thr Phe Lys Tyr Asp Asn Cys Thr Thr Tyr
238  65                  70                  75                  80
239  Leu Asn Pro Val Gly Lys His Val Ile Ala Asp Ala Gln Asn Ile Thr
240              85                  90                  95
241  Ile Ser Gln Tyr Ala Cys His Asp Gln Val Ala Val Thr Ile Leu Trp
242              100                 105                 110
243  Ser Pro Gly Ala Leu Gly Ile Glu Phe Leu Lys Gly Phe Arg Val Ile
244          115                 120                 125
245  Leu Glu Glu Leu Lys Ser Glu Gly Arg Gln Cys Gln Gln Leu Ile Leu
246      130                 135                 140
247  Lys Asp Pro Lys Gln Leu Asn Ser Ser Phe Lys Arg Thr Gly Met Glu
248  145                 150                 155                 160
249  Ser Gln Pro Phe Leu Asn Met Lys Phe Glu Thr Asp Tyr Phe Val Lys
250              165                 170                 175
251  Val Val Pro Phe Pro Ser Ile Lys Asn Glu Ser Asn Tyr His Pro Phe
252              180                 185                 190
253  Phe Phe Arg Thr Arg Ala Cys Asp Leu Leu Leu Gln Pro Asp Asn Leu
254          195                 200                 205
```

RAW SEQUENCE LISTING   DATE: 08/01/2001
PATENT APPLICATION: US/09/912,157   TIME: 15:18:07

Input Set : A:\00-49.SEQ.txt
Output Set: N:\CRF3\08012001\I912157.raw

255	Ala	Cys	Lys	Pro	Phe	Trp	Lys	Pro	Arg	Asn	Leu	Asn	Ile	Ser	Gln	His
256		210					215				220					
257	Gly	Ser	Asp	Met	Gln	Val	Ser	Phe	Asp	His	Ala	Pro	His	Asn	Phe	Gly
258	225				230					235					240
259	Phe	Arg	Phe	Phe	Tyr	Leu	His	Tyr	Lys	Leu	Lys	His	Glu	Gly	Pro	Phe
260				245					250					255		
261	Lys	Arg	Lys	Thr	Cys	Lys	Gln	Glu	Gln	Thr	Thr	Glu	Thr	Thr	Ser	Cys
262			260					265					270			
263	Leu	Leu	Gln	Asn	Val	Ser	Pro	Gly	Asp	Tyr	Ile	Ile	Glu	Leu	Val	Asp
264		275					280					285				
265	Asp	Thr	Asn	Thr	Thr	Arg	Lys	Val	Met	His	Tyr	Ala	Leu	Lys	Pro	Val
266		290					295					300				
267	His	Ser	Pro	Trp	Ala	Gly	Pro	Ile	Arg	Ala	Val	Ala	Ile	Thr	Val	Pro
268	305					310					315					320
269	Leu	Val	Val	Ile	Ser	Ala	Phe	Ala	Thr	Leu	Phe	Thr	Val	Met	Cys	Arg
270					325					330					335	
271	Lys	Lys	Gln	Gln	Glu	Asn	Ile	Tyr	Ser	His	Leu	Asp	Glu	Glu	Ser	Ser
272			340					345					350			
273	Glu	Ser	Ser	Thr	Tyr	Thr	Ala	Ala	Leu	Pro	Arg	Glu	Arg	Leu	Arg	Pro
274		355					360					365				
275	Arg	Pro	Lys	Val	Phe	Leu	Cys	Tyr	Ser	Ser	Lys	Asp	Gly	Gln	Asn	His
276		370					375					380				
277	Met	Asn	Val	Val	Gln	Cys	Phe	Ala	Tyr	Phe	Leu	Gln	Asp	Phe	Cys	Gly
278	385					390					395					400
279	Cys	Glu	Val	Ala	Leu	Asp	Leu	Trp	Glu	Asp	Phe	Ser	Leu	Cys	Arg	Glu
280					405					410					415	
281	Gly	Gln	Arg	Glu	Trp	Val	Ile	Gln	Lys	Ile	His	Glu	Ser	Gln	Phe	Ile
282				420					425					430		
283	Ile	Val	Val	Cys	Ser	Lys	Gly	Met	Lys	Tyr	Phe	Val	Asp	Lys	Lys	Asn
284			435					440					445			
285	Tyr	Lys	His	Lys	Gly	Gly	Gly	Arg	Gly	Ser	Gly	Lys	Gly	Glu	Leu	Phe
286		450					455					460				
287	Leu	Val	Ala	Val	Ser	Ala	Ile	Ala	Glu	Lys	Leu	Arg	Gln	Ala	Lys	Gln
288	465					470					475					480
289	Ser	Ser	Ser	Ala	Ala	Leu	Ser	Lys	Phe	Ile	Ala	Val	Tyr	Phe	Asp	Tyr
290					485					490					495	
291	Ser	Cys	Glu	Gly	Asp	Val	Pro	Gly	Ile	Leu	Asp	Leu	Ser	Thr	Lys	Tyr
292				500					505					510		
293	Arg	Leu	Met	Asp	Asn	Leu	Pro	Gln	Leu	Cys	Ser	His	Leu	His	Ser	Arg
294			515					520					525			
295	Asp	His	Gly	Leu	Gln	Glu	Pro	Gly	Gln	His	Thr	Arg	Gln	Gly	Ser	Arg
296		530					535					540				
297	Arg	Asn	Tyr	Phe	Arg	Ser	Lys	Ser	Gly	Arg	Ser	Leu	Tyr	Val	Ala	Ile
298	545					550					555					560
299	Cys	Asn	Met	His	Gln	Phe	Ile	Asp	Glu	Glu	Pro	Asp	Trp	Phe	Glu	Lys
300				565					570					575		
303	Gln	Phe	Val	Pro	Phe	His	Pro	Pro	Leu	Arg	Tyr	Arg	Glu	Pro	Val	
304			580					585					590			
305	Leu	Glu	Lys	Phe	Asp	Ser	Gly	Leu	Val	Leu	Asn	Asp	Val	Met	Cys	Lys

Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

VERIFICATION SUMMARY   DATE: 08/01/2001
PATENT APPLICATION: US/09/912,157   TIME: 15:18:08

Input Set : **A:\00-49.SEQ.txt**
Output Set: **N:\CRF3\08012001\I912157.raw**

```
L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:707 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:711 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
```

VERIFICATION SUMMARY   DATE: 08/01/2001
PATENT APPLICATION: US/09/912,157   TIME: 15:18:08

Input Set : **A:\00-49.SEQ.txt**
Output Set: **N:\CRF3\08012001\I912157.raw**

L:713 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:714 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6